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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,920	06/13/2006	Michinori Shinkai	03500.112333,	9223
5514	7590	09/21/2010		
FITZPATRICK CELLA HARPER & SCINTO 1290 Avenue of the Americas NEW YORK, NY 10104-3800			EXAMINER	
			TALBOT, BRIAN K	
			ART UNIT	PAPER NUMBER
			1715	
			MAIL DATE	DELIVERY MODE
			09/21/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/582,920	Applicant(s) SHINKAI ET AL.
	Examiner Brian K. Talbot	Art Unit 1715

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 08 June 2010.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 23-26 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 23-26 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____
 5) Notice of Informal Patent Application
 6) Other: _____

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/8/10 has been entered.

2. The amendment filed 6/8/10 has been considered and entered. Claims 1-22 have been canceled. Claims 23-26 have been added and are the only remaining claims.

It is noted that claims 23-26 were previously submitted in the after-final response filed 5/10/10, but was not entered. Hence, the claims status identifiers should be (new) and not (previously presented).

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 103

6. Claims 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Furusawa et al. (7,285,305) (a) alone or (b) in combination with Lee et al. (2004/0045657).

Furusawa et al. (7,285,305) teaches a multilayered wiring board and method of producing the multilayered wiring board. Furusawa et al. (7,285,305) teaches polyamide insulating layers (22) between the wiring layers and an interlayer conducting post (18) for conducting between wiring pattern (17) and the wiring pattern (31) wherein the insulating layer is disposed around the conducting post (18) using a liquid drop discharge system (abstract). Looking at the Figs, conductive wirings (17) are formed with conductive posts (18) and then insulating layer is formed surround the posts (18). Then wiring layers (31) and posts (32) are formed that connect to the wiring layer (17) and insulating layer (33) is applied to surround the post (32).

Furusawa et al. (7,285,305) fails to teach first forming the insulating portion of the first layer and then the conductive layer but teaches the reverse of this process.

(a) While the Examiner acknowledges the fact that the claimed invention teaches process steps of forming the conductor and then insulator patterns as opposed to forming the insulator and then conductive patterns, it is the Examiner's position that one skilled in the art at the time the invention was made would have had a reasonable expectation of achieving similar success regardless of which layer was applied first and which layer was applied subsequently as long as both conductive and insulative layers are formed within the same layer as claimed.

(b) Lee et al. (2004/0045657) teaches method of forming a multilayer ceramic electronic device whereby a dielectric sheet with a pattern of via holes is formed on a conductive layer and subsequently the pattern of via holes are filled with conductive paste (Figs. 1B-1D and Fig. 2). The dielectric and conductive layers are formed by printing ([0004]).

Therefore it would have been obvious for one skilled in the art at the time the invention was made to have modified Furusawa et al. (7,285,305) process by first forming the dielectric layer and then filling with conductor paste as opposed to forming conductor layer first and then dielectric layer surrounding the conductor as evidenced by Lee et al. (2004/0045657) with the expectation of achieving similar success, i.e. a layer including conductive and dielectric portions.

Response to Amendment

7. Applicant's arguments with respect to claims 21-23 have been considered but are moot in view of the new ground(s) of rejection.

Applicant argued Furusawa et al. (7,285,305) fails to teach first forming the insulating portion of the first layer and then the conductive layer but teaches the reverse of this process.

Lee et al. (2004/0045657) teaches this as detailed above.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian K. Talbot whose telephone number is (571) 272-1428. The examiner can normally be reached on Monday-Friday 8AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy H. Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Brian K Talbot/
Primary Examiner, Art Unit 1715

BKT

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